projects based on wind energy, small hydro, biomass combustion and gasification and bagasse-based cogeneration. As a result, one small hydro power (SHP) project of 2 MW capacity has been installed and two projects with an aggregate capacity of 2.6 MW are under installation. 233 potential SHP sites with an aggregate capacity of 75.28 MW have been identified. State Govt. has been requested to announce policy for inviting private sectors to develop commercial SHP projects. Central Government has also provided Rs. 43.70 lakhs during the last 3 years for the implementation of solar photovoltaic programme. 1564 street lighting systems, 370 domestic lighting system, 4100 solar lanterns, 51 solar operated TV sets and 3 SPV small power plants (14 KW aggregate capacity) have been installed so far. 50 numbers of biomass gasifiers with aggregate capacity of 2500 KW have also been installed during the 8th Plan in the State. In addition to this, the State Govt. is providing Rs. 3 crores annually to encourage the growth of renewable energy in the State.

Allocation for Non-Conventional Energy Sources in Gujarat

1955. SMT. S. ANANDIBEN JETHABHAI PATEL: Will the Minister of NON-CONVENTIONAL ENERGY SOURCES be pleased to state:

(a) the total amount provided to units using Non-conventional energy in Gujarat during the last three years;

(b) the amount earmarked for the Eighth Five Year Plan and targets fixed in this regard, and

(c) the power likely to be generated through Non-conventional sources of energy in the State?

THE MINISTER OF STATE OF THE MINISTRY OF NON-CONVENTIONAL ENERGY SOURCES (CAPT. JAI NARAYAN PRASAD NISHAD): (a) The Total amount provided to units using non-conventional energy in the State of Gujarat during last 3 years is Rs. 1758.42 lakhs.

(b) The amount earmarked for 8th Five Year Plan and the target fixed for various-Non-conventional energy programmes is given in Statement. (*See* below)

(c) 2194 lakh KwH of electrical energy is likely to be generated through Non-conventional energy sources in the State of Gujarat during 1996-97.

Statement

Eighth Five Year Plan (1992–97): Financial & Physical

Sl. No.	Programmes	Approved Outlays (Rs. in Crores)	Tentative Physical Targets
I.	*Non-Conventional Energy Sources*	857.00	
1.	Biogas Development Programme	320.00	
	a. Family Size Plants		7.50 lakh Nos.
	b. CBP/IBP/NBP		450 Nos.
2.	Improved Chulha Programme	80.00	100 lakh Nos.

Sl. No.	Programmes	Approved Outlays (Rs. in Crores)	Tentative Physical Targets
3.	Solar Thermal Programme	80.00	
	a. Solar Thermal Energy Systems		2.75 lakh sq. m. Coll. Area
	b. Solar Cookers		3.00 lakh Nos.
4.	Solar Photovoltaic Programme	90.00	
	a. SPV Lighting Systems		25,000 Nos.
	b. SPV Water Pumps		600 Nos.
	c. Other SPV Systems		1720 KW
5.	Wind Energy Programme	90.00	
	a. Wind Pumps		4000 Nos.
	b. Wind Battery Charger		500 Nos.
	c. Wind Power		100 MW *
6.	Urjagram (Surveys)	1.00	
7.	Biomass Development Programme	15.00 @	
8.	Human and Animal Energy Programme	1.00	
9.	Bioenergy Development Programme	20.00	300 MW *
10.	Small Hydel Power Development Programme	100.00	200 MW *
11.	Alternate Fuels for Surface Transportation	10.00	
12.	Magneto Hydro Dynamics		
13.	Geo-thermal Energy		
14.	Chemical Sources of Energy	10.00	
15.	Ocean Energy		
16.	Hydrogen Energy		
17.	Indian Renewable Energy Development Agency Ltd.	10.00	
18.	Regional Offices etc.		
19.	Information & Publicity		
20.	Seminars/Conferences	10.00	
21.	International Cooperation		
22.	Data Bank/TIFAC		
23.	Solar Energy Centre	15.00	
24.	Special Area Programmes & Demonstration Activities.	5.00	
II.	*Integrated Rural Energy Programme*	85.00 +	
1.	New IREP Blocks		500 Nos.

@ Includes Biomass Gasifiers;
Includes Private Sector;